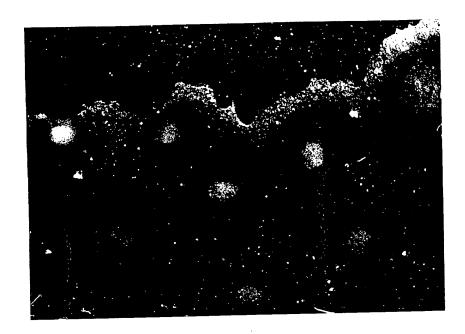
#### Figure 1



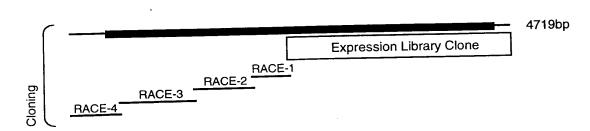
Bcap73 localizes to the forefront of endothelial cells migrating in response to injury.

Figure 2



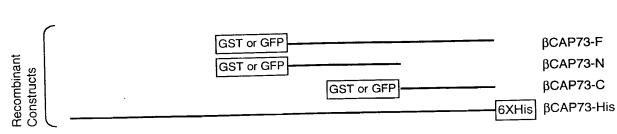
Bcap73 purification by ion-exchange chromatography.

В

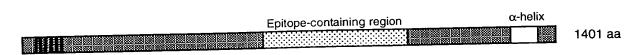


C

der and the first term that the the first term that the first term from the first term that the first term to the first term term to the first term to the f



D



cagtgttgag gcggcaggat gtagagtgct gttcaagctt tccagtggag tccccgaaaa 60	
gggaaggcag agaaagacat cttctaaata acaaatagga ggagttacag tacctgactt 12	
ggggctgctc ttaatcaagt gctgccgctg caaggaagat aattttcaag cgttatgaag 18	
geggagaagg atteegaaga egaagaaaat ateettagag ateeaageta agtgtagtge 24	
agcatgaaga ttgcagaaca ggaagagttc taagaagaag gactgagtca ctagttagga 30	
gtotototga gggotggott tgtgagocac agtgatttgt aacttaatgo gaactaattt 36	
gctgttagca acaagaaact aaatcctgtc t atg atg agc tgt tgg ttt tct 41  Met Met Ser Cys Trp Phe Ser  1 5	
tgt gct cct aag aac aga caa gca gca gat tgg aac aaa tac gat gac 46 Cys Ala Pro Lys Asn Arg Gln Ala Ala Asp Trp Asn Lys Tyr Asp Asp 10 15 20	60
cga ttg atg aga gca gca gaa agg gga gat gta gaa aaa gtg tcc tca 50 Arg Leu Met Arg Ala Ala Glu Arg Gly Asp Val Glu Lys Val Ser Ser 25 30	08
atc ctt gct aaa aag gga gtc aat cca ggc aag cta gat gta gaa ggc 5.  Ile Leu Ala Lys Lys Gly Val Asn Pro Gly Lys Leu Asp Val Glu Gly 40 45 50 55	56
aga tot goo ttt cat gtt gtg goo toa aag gga aat ott gag tgt ttg 6 Arg Ser Ala Phe His Val Val Ala Ser Lys Gly Asn Leu Glu Cys Leu 60 65 70	04
aat gcc atc ctc ata cat gga gtt gat att aca acc agt gac acc gca 6 Asn Ala Ile Leu Ile His Gly Val Asp Ile Thr Thr Ser Asp Thr Ala 75 80 85	552
gga agg aat gct ctt cac ctg gct gca aag tat ggg cat gca ctg tgt 7 Gly Arg Asn Ala Leu His Leu Ala Ala Lys Tyr Gly His Ala Leu Cys 90 95 100	700
cta caa aaa ctt cta cag tac aat tgt ccc act gaa cat gta gac ctg Leu Gln Lys Leu Leu Gln Tyr Asn Cys Pro Thr Glu His Val Asp Leu 105 110	748
cag gga aga act gca ctt cat gat gca gct atg gca gac tgt cct tct Gln Gly Arg Thr Ala Leu His Asp Ala Ala Met Ala Asp Cys Pro Ser 120 125 130 135	796
agc ata cag ctg ctc tgc gac cat ggg gcc tcg gtg aat gcc aaa gat Ser Ile Gln Leu Leu Cys Asp His Gly Ala Ser Val Asn Ala Lys Asp 140 145	844

gta Val	gat Asp	ggg Gly	cgg Arg 155	aca Thr	cca Pro	ctt Leu	gtt Val	ctg Leu 160	gct Ala	acc Thr	cag Gln	atg Met	tgt Cys 165	agg Arg	cca . Pro	892
aca Thr	ata Ile	tgt Cys 170	caa Gln	ctg Leu	ctg Leu	ata Ile	gat Asp 175	aga Arg	ggg Gly	gcg Ala	gat Asp	att Ile 180	aat Asn	tcc Ser	aga Arg	940
gac Asp	aaa Lys 185	caa Gln	aac Asn	agg Arg	act Thr	gct Ala 190	ctc Leu	atg Met	cta Leu	gga Gly	tgc Cys 195	gag Glu	tat Tyr	ggt Gly	tgc Cys	988
aaa Lys 200	gat Asp	gca Ala	gta Val	gaa Glu	gtc Val 205	tta Leu	atc Ile	aaa Lys	aac Asn	ggc Gly 210	gct Ala	gac Asp	gtg Val	acc Thr	ttg Leu 215	1036
ctg Leu	gac Asp	gcc Ala	ctt Leu	ggc Gly 220	cat His	gac Asp	agt Ser	tct Ser	tac Tyr 225	tat Tyr	gca Ala	aga Arg	att Ile	ggt Gly 230	gac Asp	1084
aat Asn	ctg Leu	gac Asp	att Ile 235	cta Leu	acc Thr	tta Leu	ctg Leu	aag Lys 240	act Thr	gca Ala	tca Ser	gaa Glu	aat Asn 245	tcc Ser	aac Asn	1132
aaa Lys	ggg	aga Arg 250	gaa Glu	ctt Leu	tgg Trp	aag Lys	aaa Lys 255	gga Gly	cca Pro	tct Ser	tta Leu	caa Gln 260	cag Gln	cga Arg	aat Asn	1180
ttg Leu	tct Ser 265	cag Gln	atg Met	cta Leu	gat Asp	gaa Glu 270	gta Val	aat Asn	acg Thr	aag Lys	tca Ser 275	Asn	cag Gln	agg Arg	gag Glu	1228
cat His 280	Gln	aac Asn	att Ile	cag Gln	gat Asp 285	ctg Leu	gag Glu	att Ile	gaa Glu	aat Asn 290	I GIU	gat Asp	ctg Leu	aaa Lys	gag Glu 295	1276
aga Arg	ttg Leu	aga Arç	aaa J Lys	att Ile 300	Gln	caa Gln	gaa Glu	cag Gln	aga Arg 305	TTE	tta Leu	ı ttg ı Lev	gat Asp	aaa Lys 310	gtc Val	1324
aat Asr	ggt Gly	tta Leu	cag Glr 315	Let	cag Gln	ctg Leu	ı aat ı Asn	gag Glu 320	ı Glü	ıgta ıVal	a ato L Met	g gto Val	g gct Ala 325	ASL	gat Asp	1372
cto Lev	g gaa 1 Glu	agt Sei 330	c Glu	g aaa 1 Lys	a gaa s Glu	aaç Lys	ctg Leu 335	г ГАЗ	g tco s Ser	ctt Lei	t ttq ı Lev	g gca ı Ala 340	A ALC	aaa Lys	gaa Glu	1420
aaq Lys	g cag s Glr 345	ı His	t gaa s Glu	a gaa ı Glu	a ago ı Ser	cta Leu 350	ı Arç	act Thi	att r Ile	gaq e Gli	g gct u Ala 35	а ье	g aaa u Ly:	a agt s Sei	aga Arg	1468

ttt Phe 360	aag Lys	tat Tyr	ttt Phe	Glu	agt Ser 365	gat Asp	cat His	tta Leu	gga Gly	tca Ser 370	gga Gly	agt Ser	cat His	ttc Phe	agg Arg 375	1516
aaa Lys	gaa Glu	gat Asp	atg Met	ctt Leu 380	ctt Leu	aaa Lys	caa Gln	ggt Gly	caa Gln 385	atg Met	tac Tyr	atg Met	aca Thr	gac Asp 390	tca Ser	1564
cag Gln	tgt Cys	act Thr	tcc Ser 395	aca Thr	ggc Gly	atg Met	cca Pro	gtc Val 400	cat His	atg Met	caa Gln	agc Ser	cga Arg 405	tct Ser	atg Met	1612
tta Leu	aga Arg	cca Pro 410	ctg Leu	gag Glu	cta Leu	gcc Ala	tta Leu 415	cct Pro	aat Asn	caa Gln	gcc Ala	tca Ser 420	tat Tyr	tcg Ser	gaa Glu	1660
aac Asn	gaa Glu 425	att Ile	tta Leu	aag Lys	aaa Lys	gaa Glu 430	tta Leu	gaa Glu	gca Ala	atg Met	aga Arg 435	act Thr	ttc Phe	tgt Cys	gat Asp	1708
tca Ser 440	Ala	aaa Lys	caa Gln	gac Asp	aga Arg 445	ctc Leu	aaa Lys	ctc Leu	caa Gln	aat Asn 450	GIU	ctg Leu	gct Ala	cac His	aag Lys 455	1756
gtg Val	gcg Ala	gag Glu	tgc Cys	aag Lys 460	gcc Ala	tta Leu	gca Ala	ttg Leu	gaa Glu 465	Cys	gaa Glu	agg Arg	gtg Val	aaa Lys 470		1804
gat Asp	tca Ser	gat Asp	gag Glu 475	Gln	ata Ile	aag Lys	caa Gln	cta Leu 480	GIL	gat Așp	gcc Ala	ttg Leu	aaa Lys 485	1101	gtg Val	1852
caç Glr	g aag Lys	g aga s Arg 490	g Met	tat Tyr	gag Glu	tcg Ser	gaa Glu 495	, Сту	aaa Lys	gto Val	g aaa Lys	caa Glr 500	1100	caç Glr	g aca n Thr	1900
cat His	ttt Phe	e Lei	gco a Ala	c ttg a Leu	ı aaa ı Lys	gaç Glu 510	ı Hls	cto Lev	aca Thi	a agt c Sei	gat Asp 515	. AIC	g gco A Ala	act a Thi	Gly ggg	1948
aad Asi 520	n His	c ago	g cto	g ato ı Met	g gag Glu 525	ı Gİ	a cto 1 Lei	g aaq ı Lys	g gat s As <sub>l</sub>	cac o Gli 53	пре	g aaa u Lys	a gad s Asp	c ato p Me	g aaa t Lys 535	1996 <sup>°</sup>
gt. Va	g aaa l Ly:	a ta s Ty	c ga r Gl	a ggt u Gly 540	y Ala	g tco a Se:	c gca r Ala	a gaa a Gli	a gte ı Va 54	T GT	g aa y Ly	a tto s Le	g aga	a aa g As: 55	c caa n Gln 0	2044
at Il	c aa e Ly	a ca s Gl	a aa n As 55	n Gl	a ato u Me	g tt t Le	a gt u Va	t ga 1 Gl 56	u Gi	g tt u Ph	t aa e Ly	g ag s Ar	a ga g As 56	P 0-	g ggc u Gly	2092

aag Lys	ctg Leu	atg Met 570	gaa Glu	gag Glu	aat Asn	aag Lys	cga Arg 575	ctg Leu	cag Gln	aag Lys	gag Glu	ttg Leu 580	agc Ser	atg Met	tgt Cys	2140
gaa Glu	ctg Leu 585	gag Glu	cga Arg	gag Ġlu	aag Lys	aga Arg 590	gga Gly	agg Arg	aag Lys	ctc Leu	act Thr 595	gag Glu	atg Met	gaa Glu	ggc Gly	2188
cag Gln 600	tta Leu	aag Lys	gac Asp	ttg Leu	tca Ser 605	gcc Ala	aag Lys	ctg Leu	gcc Ala	ctt Leu 610	tct Ser	att Ile	cca Pro	gca Ala	gag Glu 615	2236
aaa Lys	ttt Phe	gaa Glu	aac Asn	atg Met 620	aag Lys	agc Ser	ttg Leu	tta Leu	tca Ser 625	aat Asn	gaa Glu	ctg Leu	aac Asn	gag Glu 630	aag Lys	2284
gca Ala	aaa Lys	aaa Lys	tta Leu 635	ata Ile	gat Asp	gtg Val	gaa Glu	aga Arg 640	gaa Glu	tat Tyr	gaa Glu	aga Arg	tca Ser 645	ctt Leu	aat Asn	2332
gaa Glu	act Thr	aga Arg 650	Pro	tta Leu	aag Lys	aga Arg	gaa Glu 655	ctt Leu	gag Glu	aat Asn	ttg Leu	aag Lys 660	gcc Ala	aaa Lys	ctg Leu	2380
gct Ala	cag Gln 665	His	gtc	aaa Lys	cca Pro	gag Glu 670	GLu	cat His	gag Glu	cag Gln	ctc Leu 675	гуу	agc Ser	aga Arg	tta Leu	2428
gag Glu 680	Gln	aaç Lys	tca Ser	gga Gly	gaa Glu 685	Leu	ggg Gly	aag Lys	agg Arg	ato Ile 690	Thr	gag Glu	tta Leu	aca Thr	tcg Ser 695	2476
aaa Lys	aat Asn	cac Glr	g aco	tta Leu 700	Gln	aag Lys	gaa Glu	atc Ile	gaa Glu 705	т гуз	gtc Val	: tgc . Cys	ctg Leu	gat Asp 710	aat Asn )	2524
aaq Lys	g cto s Leu	c ctt 1 Lei	aca Thi	c Glr	n caa n Glr	ı gta ı Val	a aat Asr	aac Asr 720	тег	a aca ı Thi	a act	gaa Glu	atg Met 725	. шу-	a aat s Asn	2572
cat His	tao Tyi	gte Val	l Pro	t tta o Lei	a aaa ı Lys	a gta s Val	a agt L Sei 735	c GII	a gaa 1 Glu	a ato 1 Met	g aaa Lys	a aag s Lys 740	, 261	cat His	t gat s Asp	2620
gt: Val	a att 1 Ile 745	e Va	t ga l As	t gat p Asj	t tto p Lev	g aat 1 Asi 750	л гл	a aaq s Lys	g cti s Lei	t tca u Se:	a gat r Ası 75!	.va	g aca L Thi	a cad	c aaa s Lys	2668
ta Ty 76	r Th	a ga r Gl	a aa u Ly	g aa s Ly	g tte s Lei 76	u GI	a ato u Me	g gad t Gl	g aa u Ly	g tt s Le 77	и ье	t ato u Me	g gaa t Gli	a aa ı As	t gcc n Ala 775	2716

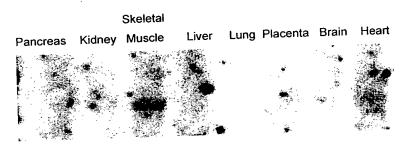
agt Ser	tta Leu	agt Ser	aaa Lys	aat Asn 780	gtc Val	agc Ser	cgc Arg	ctg Leu	gaa Glu 785	act Thr	gtg Val	ttc Phe	ata Ile	cct Pro 790	ccc Pro	2764
gag Glu	aga Arg	cac His	gaa Glu 795	aaa Lys	gaa Glu	atg Met	atg Met	gct Ala 800	ctg Leu	aaa Lys	tcc Ser	aat Asn	atc Ile 805	act Thr	gaa Glu	2812
ctt Leu	aag Lys	aag Lys 810	cag Gln	ctg Leu	tct Ser	gaa Glu	ctt Leu 815	aat Asn	aaa Lys	aaa Lys	tgt Cys	ggt Gly 820	gaa Glu	gac Asp	caa Gln	2860
gag Glu	aaa Lys 825	ata Ile	tat Tyr	tca Ser	ctc Leu	atg Met 830	tct Ser	gaa Glu	aac Asn	aat Asn	gat Asp 835	ttg Leu	aaa Lys	aag Lys	acc Thr	2908
atg Met 840	agt Ser	cat His	cag Gln	tat Tyr	gtg Val 845	ccc Pro	gtg Val	aaa Lys	acc Thr	cat His 850	gaa Glu	gag Glu	att Ile	aaa Lys	act Thr 855	2956
gcc Ala	ttg Leu	agt Ser	agc Ser	aca Thr 860	ttg Leu	gat Asp	aaa Lys	acc Thr	aat Asn 865	Arg	gaa Glu	tta Leu	gta Val	gat Asp 870	gtg Val	3004
aag Lys	aag Lys	aag Lys	tgt Cys 875	Glu	gat Asp	ata Ile	aat Asn	caa Gln 880	GIU	ttt Phe	gtg Val	aaa Lys	ata Ile 885	-1-	gat Asp	3052
gag Glu	aac Asr	gaa Glu 890	ı Ile	tta E Leu	aaa Lys	aga Arg	aat Asn 895	. ьес	gaç Glu	g aac 1 Asr	act Thr	cag Gln 900		caa Gln	gta Val	3100
aaa Lys	gct Ala 905	a Glu	g tad ı Tyı	c ato	ago Ser	cta Leu 910	ı Arç	gaç Glu	g cat His	gaa Glu	a gaa a Glu 915	, Ly	g ato Met	agt Ser	ggc Gly	3148
cta Lei 920	Ar د	g aad g Ly:	g age s Se:	c ato r Met	g aaq Lys 925	: Lys	g gto s Val	c caq L Glr	g gad n Asp	c aad p Asi 93	1 50.	c gct r Ala	gaa Glu	a ata ı Ile	ctg E Leu 935	3196
gc† Ala	t aa a Ly	g ta s Ty	c aa r Ly	a aaa s Ly: 940	s Sei	caq Glr	g gaq n Gli	g gad ı Gli	g at u Il 94	e va	c ac	c cto	g cat ı His	gaç s Glu 950	g gag ı Glu O	3244
at Il	t gc e Al	a gc a Al	c ca a Gl 95	n Ly	g aga s Ara	a gaa g Gli	a cto u Le	c ga u As 96	b m	g at r Il	a ca e Gl	g ga n Gl	a tgo u Cy 96		c aag e Lys	3292
ct Le	a aa u Ly	a ta s Ty 97	r Al	t cc a Pr	g at o Il	c at e Il	c ag e Se 97	r ье	g ga u Gl	a ga u Gl	g tg u Cy	t ga 's Gl 98	u 211	a aa g Ly	a ttt s Phe	3340

aaa gcc Lys Ala 985	act Thr	gag Glu	aaa Lys	gaa Glu	cta Leu 990	aaa Lys	gaa Glu	cag Gln	cta Leu	tcc Ser 995	cag Gln	cag Gln	aca Thr	cag Gln	3388
aag tat Lys Tyr 1000	aat Asn	acc Thr	Ser	gaa Glu 005	gaa Glu	gag Glu	gcc Ala	Lys	aag Lys 1010	tgc Cys	aag Lys	caa Gln	GIU	aat Asn 1015	3436
gac aag Asp Lys	tta Leu	Lys	aag Lys .020	gag Glu	atc Ile	ctc Leu	Thr	ctt Leu 1025	cag Gln	aag Lys	gat Asp	ьeu	aag Lys 1030	gat Asp	3484
aag aat Lys Asn	Val	cac His	att Ile	gag Glu	aat Asn	Ser	tat Tyr 1040	gaa Glu	aca Thr	gaa Glu	Arg	gca Ala 1045	tta Leu	agc Ser	3532
aga aaa Arg Lys	aca Thr 1050	gaa Glu	gag Glu	ctg Leu	Asn	aga Arg 1055	cag Gln	tta Leu	aaa Lys	Asp	ctg Leu 1060	ttg Leu	cag Gln	aaa Lys	3580
tac aca Tyr Thr 1065	Glu	gca Ala	aag Lys	Lys	gag Glu 1070	aaa Lys	gag Glu	aag Lys	ьeu	gtg Val 1075	gag Glu	gaa Glu	aat Asn	gcc Ala	3628
aag cag Lys Gln 1080	act Thr	tct Ser	Glu	atc Ile 1085	ctt Leu	gca Ala	gca Ala	caa Gln	act Thr 1090	ctt Leu	ttg Leu	cag Gln	aag Lys	cag Gln 1095	3676
cat gtt His Val	ccg Pro	Leu	gag Glu 1100	cag Gln	gtt Val	gag Glu	Ser	ctg Leu 1105	. Буѕ	aaa Lys	tct Ser	ctt Leu	agt Ser 1110	$C_{\perp}$	3724
aca ato Thr Ile	e Glu	aca Thr 1115	ctc Leu	aag Lys	gaa Glu	Glu	ctg Leu 1120	гра	act Thr	aag Lys	cag Gln	aga Arg 1125	Суз	tat Tyr	3772
gag aaa Glu Lys	a gag s Glu 1130	Gln	cag Gln	aca Thr	gtg Val	acc Thr	G1r	cto Lei	g egg i Arg	cag Gln	atg Met 1140	. rec	g gaq ı Glı	g aat ı Asn	3820
cag aad Gln Ly: 114	s Asn	tcc Ser	tct Ser	gtg Val	Pro 1150	) Leu	gct Ala	gaq Glu	g cat ı His	tto Lev 1155	1 GTI	g gtt n Val	aaq L Lys	g gaa s Glu	3868
gca tt Ala Ph 1160	t gag e Glu	ı aaaı Lys	ı gaa : Glu	gtt Val	. Gl	a ato / Ile	ata E Ile	a aaa e Lys	a gct s Ala 1170	a sei	c tto Lei	g aga ı Arq	a gaa g Gli	a aag u Lys 1175	3916
gaa ga Glu Gl	a gaa u Glu	a ago ı Ser	c caa Gln 1180	ı Asr	aaa Lys	a act s Thi	gaa Glu	a gad u Gli 118	u Va.	c tco l Sei	c aaa r Ly:	a cto s Leo	c ca u Gl 119	n ser	3964

gag att cag aa Glu Ile Gln As 119	at act aaa caa sn Thr Lys Gln 95	gcg tta aaa Ala Leu Lys 1200	Lys Leu Giu	act cgg gag Thr Arg Glu 205	4012
gtg gtt gat tt Val Val Asp Le 1210	ng tog aaa tat eu Ser Lys Tyr	aaa gca acg Lys Ala Thr 1215	aaa agc gat t Lys Ser Asp 1 1220	ttg gag aca Leu Glu Thr	4060
cag att tcc ga Gln Ile Ser As 1225	ac tta aac gaa sp Leu Asn Glu 1230	aaa ttg gcc Lys Leu Ala	aat ctg aat a Asn Leu Asn 2 1235	agg aag tat Arg Lys Tyr	4108
gag gaa gta to Glu Glu Val Cy 1240	gt gag gag gtt ys Glu Glu Val 1245	ttg cat gcc Leu His Ala	aaa aag aag Lys Lys Lys 1250	gaa ctg tct Glu Leu Ser 1255	4156
gct aaa gat ga Ala Lys Asp G	ag aag gaa ttg lu Lys Glu Leu 1260	ctc cat ttc Leu His Phe 1265	Ser He Glu	caa gaa atc Gln Glu Ile 1270	4204
aaa gat cag c Lys Asp Gln G 12	ag gaa cga tgt ln Glu Arg Cys 75	gac aaa too Asp Lys Ser 1280	Leu Thr Thr	atc acg gag Ile Thr Glu 285	4252
cta cag aga a Leu Gln Arg A 1290	ga ata cag gaa rg Ile Gln Glu	tct gcc aaa Ser Ala Lys 1295	caa atc gaa Gln Ile Glu 1300	gca aaa gat Ala Lys Asp	4300
aat aag ata a Asn Lys Ile T 1305	ct gaa ctg ctc hr Glu Leu Leu 1310	Asn Asp Val	g gag aga tta L Glu Arg Leu 1315	aaa cag gcc Lys Gln Ala	4348
ctc aat ggc c Leu Asn Gly L 1320	ett too cag oto eu Ser Gln Leu 1325	acc tat gga Thr Tyr Gly	a agt ggg agt y Ser Gly Ser 1330	ccc agc aag Pro Ser Lys 1335	
agg cag agt c Arg Gln Ser G	ag ctg att gac In Leu Ile Asp 1340	age etg cag Ser Leu Gli 134	n Gln Gln Val	agg tcc ctg Arg Ser Leu 1350	4444
Gln Gln Gln I	etg gcg gat gcc Leu Ala Asp Ala 855	gac aga cac A Asp Arg Gli 1360	n His Gln Glu	gta att gca Val Ile Ala 1365	4492
att tat cgg a Ile Tyr Arg 1 1370	aca cac ctt ctt Thr His Leu Lev	agt gct gc 1 Ser Ala Al 1375	a cag ggt cac a Gln Gly His 1380	atg gat gag Met Asp Gli	4540 1
gat gtg cag g Asp Val Gln <i>F</i> 1385	gcc gcc tta cto Ala Ala Leu Leo 1390	ı Gln Ile Il	a cag atg cgg e Gln Met Arg 1395	cag ggg cto Gln Gly Lev	4588

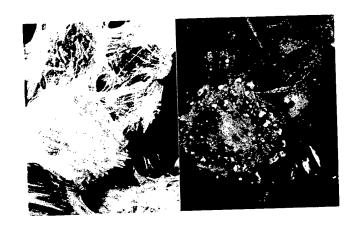
gtg tgc tag Val Cys 1400	rteggeae eec	ccagccc aca	igtggctt ted	ectgetgg tgo	tgagcat;	4644
tctgtgcgca	acttcatggc	ctttctgggc	ctcgctgtgc	tagtataatt	aaaataaagt	4704
gtattttgat	ccatcaaaaa	aaaaaaaaa	aa			4736

Figure 5



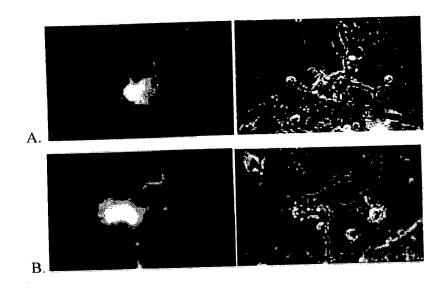
Bcap73 mRNA is expressed in various human tissues

Figure 6



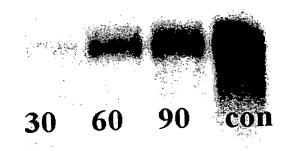
Overexpression of recombinant bcap73 induces formation of novel membrane protrusions

Figure 7



Overexpression of bcap73 domains induces aberrant cellular projections

Figure 8



Bcap73 mRNA is down-regulated in response to injury

Sequence Alignment of bcap73 cDNA against Canine familiaris mRNA for C3VS protein (GenBank accession X99145)

	Query=βCAP73 Sbjct=C3VS							
	Query: 358	tttgctgttagcaacaagaaactaaatcctgtctatgatgagctgttggttttcttgtgc 417						
	Sbjct: 12							
	Query: 418	tcctaagaacagacaagcagattggaacaaatacgatgaccgattgatgagagcagc 477						
	Sbjct: 72							
e Fig.	Query: 478	agaaaggggagatgtagaaaaagtgtcctcaatccttgctaaaaagggagtcaatccagg 537						
	Sbjct: 132	ggagaggggagatgtagaaaaagttteettaateettgetaannagg						
	Query: 538	caagctagatgtagaaggcagatctgcctttcatgttgtggcctcaaagggaaatcttga 597						
The first state	Sbjct: 192	caaactagatgtggaaggcagatctgcctccatgeogoggs						
B	Query: 598	gtgtttgaatgccatcctcatacatggagttgatattacaaccagtgacaccgcaggaag 657						
FIR	Sbjct: 252							
test spens seens comp const	Query: 658	gaatgctcttcacctggctgcaaagtatgggcatgcactgtgtctacaaaaacttctaca 717						
<b>L</b> #	Sbjct: 312							
	Query: 718							
	Sbjct: 372	tagagaaccqcaccqcaccacacacacacacacacacacac						
	Query: 778							
	Sbjct: 432							
	Query: 838							
	Sbjct: 492	2 - Caaagacg - 999 999 - 999						

	Query: Sbjct:		atgtcaactgctgatagatagagggggggatattaattccagagacaaacaa
	Query: Sbjct:		tgctctcatgctaggatgcgagtatggttgcaaagatgcagtagaagtcttaatcaaaaa 1017
	Query: Sbjct:		cggcgctgacgtgaccttgctggacgcccttggccatgacagttcttactatgcaagaat 1077
e gent	Query: Sbjct:		tggtgacaatctggacattctaaccttactgaagactgcatcagaaaattccaacaaagg 1137 
gen, ser, sere seen seen ser ser see Neel 1821 mild Hall seed Mins Head Tad	Query:		gagagaactttggaagaaaggaccatctttacaacagcgaaatttgtctcagatgctaga 1197 
=			g tgaagtaaatacgaagtcaaatcagagggagcatcaaaacattcaggatctggagattga 1257 
ndia Nam three first that that	Query Sbjct		8 aaatgaagatctgaaagagattgagaaaaattcagcaagaacagagaatattattgga 1317 
		r: 131 :: 972	8 taaagtcaatggtttacagctacagctgaatgaggaagtaatggtggctgatgatctgga 1377 
	Query Sbjct	y: 137 z: 103	78 aagtgagaaagaaaagctgaagtcccttttggcagccaaagaaaagcagcatgaagaaag 1437 
			38 cctaagaactattgaggctctgaaaagtagatttaagtattttgag 1483             

	Ouery: 1	566 a	gtgtacttccacaggcatgccagtccatatgcaaagccgatctatgttaagaccactgg 162	5
	Sbjct: 1	 136 a		5
	Query: 1	626 a	agctagccttacctaatcaagcctcatattcggaaaacgaaattttaaagaaag	5
	Sbjct: 1	196 a		55
	Query: 1	.686 <i>a</i>	aagcaatgagaactttctgtgattcagcaaaacaagacagac	15
		.256 a	aagcaatgagaactttctgcgaatcagccaaacaagaccgcccuugsss g	
l	Query: 1	L746 t	tggctcacaaggtggcggagtgcaaggccttagcattggaatgtgaaagggtgaaagagg 180	05 75
		1316	tggcgcacaaggtggctgagtgcaaagctttaggactagaacgcgaacg	
	Query: 3	1806	attcagatgagcagataaagcaactagaagatgccttgaaagacgtgcagaagagaatgt 18	65 35
THE SHIP		1376	actctgatgagcagataaagcagttagaagacgcattgaaagacgcgcgcagaagacgcgcagaagacgcagaagacgcattgaaagacgcagaagacgcattgaaagacg	
i.	Query:	1866	atgagtcggaaggtaaagtgaaacaaatgcagacacattttcttgccttgaaagagcacc 19	95
ladi tudi tudi tuan tu				
Test the	Query:	1926	tgacaagtgatgcggccactgggaaccacaggctgatggaggaactgaaggatcagttga 19	555
	Query:	1986	aagacatgaaagtgaaatacgaaggtgcgtccgcagaagtggggaaattgagaaaccaaa 20	615
	Query:	2046	tcaaacaaaatgaaatgttagttgaagagtttaagagagatgagggcaagctgatggaag 2: 	675
	Query:	2106	agaataagcgactgcagaaggagttgagcatgtgtgaactggagcgagagaagagaggaa 2 	735
	sbjet:	10/0	, agaadan, - 3	

Query:	2166	ggaagctcactgagatggaaggccagttaaaggacttgtcagccaagctggccctttcta :	2225
Sbjct:	1736		1795
		ttccagcagagaaatttgaaaacatgaagagcttgttatcaa 2267	

The first street street street to the street 
#### Figure 10-1

Sequence Alignment of bcap73 against Tentative Human Concensus (THC) Contiguous Sequences THC244788 THC143090 THC186491 THC213238 (from TIGR)

Score = 1052 bits (547), Expect = 0.0 Identities = 905/1092 (82%), Positives = 905/1092 (82%), Gaps = 4/1092 (0%)

Query=bcap73 cDNA Sbjct=THC seq

Query: 3136 aaagatgagtggcctaaggaagagcatgaagaaggtccaggacaacagcgctgaaatact 3195
Query: 3196 ggctaagtacnnnnnngccaggaggagattgtcaccctgcatgaggagattgcagccca 3255
Query: 3256 gaagagagaactcgacacgatacaggaatgcatcaagctaaaatatgctccgatcatcag 3315 
Query: 3316 cttggaagagtgtgagagaaatttaaagccactgagaaagaa
Query: 3375 cccagcagacacagaagtataataccagtgaagaagaggccaagaagtgcaagcaa
Query: 3435 atgacaagttaaagaaggagatcctcactcttcagaaggatctaaaggataagaatgttc 3494
Query: 3495 acattgagaattcttatgaaacagaaagagcattaagcagaaaaacagaagagctgaaca 3554 
Query: 3555 gacagttaaaagacctgttgcagaaatacacagaggcaaagaaggagaaagaa

11.

# Figure 10-2

thank of the stands of the sta	Query: 3615 Sbjct: 486	tggaggaaaatgccaagcagacttctgagatccttgcagcacaaactcttttgcagaagc 3674
	Query: 3675 Sbjct: 546	agcatgttccgctggagcaggttgagtccctgaaaaaatctcttagtggtacaatcgaga 3734 
	Query: 3735 Sbjct: 606	cactcaaggaagaactgaaaactaagcagagatgttatgagaaagagcagcagacagtga 3794 
	Query: 3799	5 cccaactgcggcagatgctggagaatcagaagaactcctctgtgcccctggctgagcatt 3854 
	Query: 385 Sbjct: 726	5 tgcaggttaaggaagcatttgagaaagaagttggaatcataaaagctagct
	Query: 391 Sbjct: 786	.5 aggaagaagaaagccaaaacaaaactgaagaggtctccaaactccagtctgagattcaga 3974 
	Query: 397	75 atactaaacaagcgttnnnnnnttagagactcgggaggtggttgatttgtcgaaatata 4034 
	Query: 40	35 aagcaacgaaaagcgatttggagacacagatttccgacttaaacgaaaaattggccaatc 4094 
	Query: 40 Sbjct: 96	95 tgaataggaagtatgaggaagtatgtgaggaggttttgcatgccaaaaagaaggaactgt 4154 
	Query: 41	.55 ctgctaaagatgagaaggaattgctccatttcagcatagagcaagaaatcaaagatcagc 4214 

Figure 10-3

Query: 4215 aggaacgatgtg 4226 |||||||||| Sbjct: 1083 aggaacgatgtg 1094

the state of the s